

SEQUENCE LISTING

<110> KOMORIYA, AKIRA
PACKARD, BEVERLY S.

<120> HOMO-DOUBLY LABELED COMPOSITIONS FOR THE DETECTION OF ENZYME
ACTIVITY IN BIOLOGICAL SAMPLES

<130> 300-948600US

<140> 09/747,287

<141> 2000-12-22

<150> US 09/349,019

<151> 1999-09-10

<150> US08/802,981

<151> 1997-02-20

<150> PCT/US00/24882

<151> 2000-09-11

<160> 242

<170> PatentIn version 3.2

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<400> 44

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<210> 45
<211> 12
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<400> 45

Lys Asp Ala Ile Pro Met Ser Ile Pro Lys Gly Tyr
1 5 10

<210> 46
<211> 14
<212> PRT

<213> Artificial

<220>

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<220>

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<222> (6)..(6)

<223> Xaa is norleucine

<400> 46

Lys Asp Ala Ile Pro Xaa Ala Ala Ser Ile Pro Lys Gly Tyr
1 5 10

<210> 47

<211> 16

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide.

<400> 47

Lys Asp Asx Gly Asp Glu Val Asp Gly Ile Asp Gly Pro Lys Gly Tyr
1 5 10 15

<210> 48

<211> 17

<212> PRT

<213> Artificial

<220>

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<220>

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<222> (4)..(4)

<223> Xaa is epsilon-aminocaproic acid

<400> 48

Lys Asp Asx Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Pro Lys Gly
1 5 10 15

Tyr

<210> 49

<211> 17

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<400> 49

Lys Asp Asx Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Pro Lys Gly
1 5 10 15

Tyr

<210> 50
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<400> 50

Lys Asp Tyr Asx Ala Asp Gly Ile Asp Pro Lys Gly Tyr
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<210> 51
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<400> 51

Lys Asp Pro Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 52
<211> 16
<212> PRT

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<220>
<221> misc_feature
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<223> K is blocked with amide

<400> 52

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1 5 10 15

<210> 53
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<222> (6)..(6)
<223> Xaa is tetrahydroisoquinoline-3-carboxylic acid.

<220>
<221> misc_feature
<222> (15)..(15)
<223> Xaa is episilon-aminocaproic acid

<400> 53

Lys Asp Pro Xaa Gly Xaa Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro
1 5 10 15

Lys Gly Tyr

<210> 54
<211> 17
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<223> Xaa is episilon-aminocaproic acid

<400> 54

Lys Asp Pro Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Pro Lys Gly
1 5 10 15

Tyr

<210> 55
<211> 17
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<220>
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<400> 55

Lys Asp Pro Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys Gly
1 5 10 15

Tyr

<210> 56
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<220>
<221> misc_feature
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<400> 56

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<210> 57
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<400> 57

Lys Asp Pro Xaa Gly Glu Glu Val Glu Gly Ile Asn Gly Xaa Pro Lys
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Gly Tyr

<210> 58
<211> 18
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<220>
<221> misc_feature
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<223> Xaa is episilon-aminocaproic acid

<400> 58

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1 5 10 15

Gly Tyr

<210> 59
<211> 18
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<223> Xaa is episilon-aminocaproic acid

<400> 59

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1 5 10 15

Gly Tyr

<210> 60
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<400> 60

Lys Asp Pro Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 61
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<400> 61

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1 5 10 15

Gly Tyr

<210> 62
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<400> 62

Lys Asp Asx Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 63
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<222> (14)..(14)

<223> Xaa can be any naturally occurring amino acid

<400> 63

Lys Asp Asx Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 64

<211> 18

<212> PRT

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<220>

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<222> (14)..(14)

<223> Xaa is epsilon-aminocaproic acid

<400> 64

Lys Asp Asx Xaa Gly Asp Glu Val Asn Gly Ile Asp Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 65

<211> 19

<212> PRT
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<400> 65

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1 5 10 15

Lys Gly Tyr

<210> 66
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<222> (14)..(14)
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<400> 66

Lys Asp Asx Xaa Gly Asn Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
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Gly Tyr

<210> 67

<211> 18
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<222> (14)..(14)
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<400> 67

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Gly Tyr

<210> 68
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<222> (14)..(14)
<223> Xaa is episilon-aminocaproic acid

<400> 68

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Gly Tyr

<210> 69
<211> 18
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<400> 69

Lys Asp Asx Xaa Gly Asp Glu Val Asn Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 70
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<222> (14)..(14)
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<400> 70

Lys Asp Asx Xaa Gly Asn Glu Val Asn Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 71
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<400> 71

Lys Asp Asx Xaa Gly Xaa Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro
1 5 10 15

Lys Gly Lys

<210> 72
<211> 19
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 <223> Xaa can be any naturally occurring amino acid
 <400> 72

Lys	Asp	Asx	Xaa	Gly	Xaa	Asp	Glu	Val	Asp	Gly	Ile	Asp	Gly	Xaa	Pro
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Lys Gly Tyr

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<400> 73

Lys	Asp	Asx	Xaa	Gly	Trp	Asp	Glu	Val	Asp	Gly	Ile	Asp	Gly	Xaa	Pro
1				5					10					15	

Lys Gly Tyr

<210> 74
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<222> (6)..(6)

<223> Xaa is D form Trp

<220>

<221> misc_feature

<222> (15)..(15)

<223> Xaa is episilon-aminocaproic acid

<400> 74

Lys Asp Asx Xaa Gly Xaa Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro
1 5 10 15

Lys Gly Tyr

<210> 75

<211> 20

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<222> (6)..(7)

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<222> (16)..(16)

<223> Xaa is episilon-aminocaproic acid

<400> 75

Lys Asp Asx Xaa Gly Xaa Xaa Asp Glu Val Asp Gly Ile Asp Gly Xaa
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Pro Lys Gly Tyr
20

<210> 76
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<222> (6)..(7)

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<223> Xaa is episilon-aminocaproic acid

<400> 76

Lys Asp Asx Xaa Gly Xaa Xaa Asp Glu Val Asp Gly Ile Asp Gly Xaa
1 5 10 15

Pro Lys Gly Tyr
20

<210> 77
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<400> 77

Lys Asp Asx Tyr Val Ala Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 78
<211> 14
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<223> Synthetic peptide.

<400> 78

Lys Asp Asx Tyr Val Ala Asp Gly Ile Asn Pro Lys Gly Tyr
1 5 10

<210> 79

<211> 14

<212> PRT

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<220>

<223> Synthetic peptide.

<400> 79

Lys Asp Asx Tyr Val Ala Asn Gly Ile Asn Pro Lys Gly Tyr
1 5 10

<210> 80

<211> 16

<212> PRT

<213> Artificial

<220>

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<400> 80

Lys Asp Asx Gly Tyr Val Ala Asp Gly Ile Asp Gly Pro Lys Gly Tyr
1 5 10 15

<210> 81

<211> 16

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<220>

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<400> 81

Lys Asp Asx Gly Tyr Val Ala Asp Gly Ile Asn Gly Pro Lys Gly Tyr
1 5 10 15

<210> 82

<211> 16

<212> PRT

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<400> 82

Lys Asp Asx Gly Tyr Val Ala Asn Gly Ile Asn Gly Pro Lys Gly Tyr
1 5 10 15

<210> 83
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<220>
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<400> 83

Lys Asp Asx Xaa Gly Tyr Val Ala Asp Gly Ile Asp Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 84
<211> 18
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<222> (14)..(14)
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Lys Asp Asx Xaa Gly Tyr Val Ala Asn Gly Ile Asp Gly Xaa Pro Lys
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Gly Tyr

<210> 85

<211> 18

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<220>

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<222> (14)..(14)

<223> Xaa is epsilon-aminocaproic acid

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Lys Asp Asx Xaa Gly Tyr Val Ala Asn Gly Ile Asn Gly Xaa Pro Lys
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Gly Tyr

<210> 86

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<222> (14)..(14)

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<400> 86

Lys Asp Asx Xaa Gly Tyr Val Ala Asp Gly Ile Asn Gly Xaa Pro Lys
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Gly Tyr

<210> 87

<211> 18

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<222> (6)..(6)

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<222> (14)..(14)

<223> Xaa is epsilon-aminocaproic acid

<400> 87

Lys Asp Asx Xaa Gly Xaa Val Ala Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 88

<211> 14

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<220>

<223> Synthetic peptide.

<400> 88

Lys Asp Asx Tyr Val His Asp Ala Pro Val Pro Lys Gly Tyr
1 5 10

<210> 89
<211> 14
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<400> 89

Lys Asp Asx Tyr Val His Asp Ala Pro Val Pro Lys Gly Tyr
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<210> 90
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<400> 90

Lys Asp Asx Tyr Val His Asp Ala Pro Val Pro Lys Gly Tyr
1 5 10

<210> 91
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<400> 91

Lys Asp Asx Gly Tyr Val His Asp Ala Pro Val Gly Pro Lys Gly Tyr
1 5 10 15

<210> 92
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<400> 92

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1 5 10 15

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<400> 93

Lys Asp Asx Gly Tyr Val His Asp Ala Pro Val Gly Pro Lys Gly Tyr
1 5 10 15

<210> 94
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<400> 94

Lys Asp Asx Xaa Gly Tyr Val His Asp Ala Pro Val Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 95
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<400> 95

Lys Asp Asx Xaa Gly Tyr Val His Asp Ala Pro Val Gly Xaa Pro Lys
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Gly Tyr

<210> 96
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<400> 96

Lys Asp Asx Xaa Gly Tyr Val His Asp Ala Pro Val Gly Xaa Pro Lys
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Gly Tyr

<210> 97
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<222> (14)..(14)

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Gly Tyr

<210> 98

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<220>

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<222> (14)..(14)

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<400> 98

Lys Asp Asx Xaa Gly Tyr Val His Asp Ala Pro Val Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 99

<211> 18

<212> PRT

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<222> (14)..(14)
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<400> 99

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1 5 10 15

Gly Tyr

<210> 100
<211> 17
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1 5 10 15

Tyr

<210> 101
<211> 17
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<220>
<223> Synthetic peptide.

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Tyr

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<210> 103
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Gly Tyr

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Gly Tyr

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Gly Tyr

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Tyr

<210> 110
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Tyr

<210> 111
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~~Lys-Gly-Tyr~~

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<211> 17

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Tyr

<210> 113

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Tyr

<210> 115
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Lys Gly Tyr

<210> 117
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1 5 10 15

Lys Gly Tyr

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Tyr

<210> 119

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~~Lys-Gly-Tyr~~

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1 5 10 15

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Lys Gly Tyr

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Lys Gly Tyr

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Gly Tyr

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Lys Gly Tyr

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Tyr

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Tyr

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<400> 158

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1 5 10

<210> 159

<211> 15

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<400> 159

Lys Asp Pro Xaa Gly Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1 5 10 15

<210> 160

<211> 14

<212> PRT

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<222> (4)..(4)

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<400> 160

Lys Asp Pro Xaa Gly Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1 5 10

<210> 161
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<400> 161

Lys Asp Pro Gly Thr Gly Arg Thr Gly Pro Lys Gly Tyr
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<210> 162
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<220>

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<222> (4)..(4)

<223> Xaa is episilon-aminocaproic acid

<400> 162

Lys Asp Pro Xaa Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
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<210> 163
<211> 13
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<223> Xaa is 4-aminobutyric acid

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Lys Asp Pro Xaa Thr Gly Arg Thr Gly Pro Lys Gly Tyr .
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<400> 164

Lys Asp Pro Xaa Thr Gly Arg Thr Gly Pro Lys Gly Tyr
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<220>
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<400> 165

Lys Asp Asx Xaa Gly Val Met Thr Gly Arg Val Gly Xaa Pro Lys Gly
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Tyr

<210> 166

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<223> Xaa can be any naturally occurring amino acid

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<400> 166

Lys Asp Asx Xaa Gly Val Xaa Thr Gly Arg Val Gly Xaa Pro Lys Gly
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Tyr

<210> 167
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<400> 167

Lys Asp Asx Xaa Gly Val Met Thr Gly Arg Ala Gly Xaa Pro Lys Gly
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Tyr

<210> 168
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<400> 168

Lys Asp Asx Xaa Gly Val Xaa Thr Gly Arg Ala Gly Xaa Pro Lys Gly
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Tyr

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<223> Xaa can be any naturally occurring amino acid

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<223> Xaa is epsilon-aminocaproic acid

<400> 169

Lys Asp Pro Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Xaa
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Pro Lys Gly Tyr Gly Xaa Pro Lys Gly Tyr
20 25

<210> 170
<211> 20
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<222> (14)..(14)
<223> Xaa is D form Phe

<220>
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<400> 170

Lys Asp Pro Xaa Gly Ser Xaa Val Lys Xaa Asp Ala Glu Xaa Gly Xaa
1 5 10 15

Pro Lys Gly Tyr

<210> 171
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<220>
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<400> 171

Lys Asp Pro Xaa Gly Ser Xaa Val Lys Xaa Asp Ala Glu Xaa Gly Xaa
 1 5 10 15

Pro Lys Gly Tyr
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<210> 172
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<400> 172

Lys Asp Asx Xaa Gly Ser Glu Val Asn Leu Asp Ala Glu Phe Gly Xaa
1 5 10 15

Pro Lys Asp Asp Tyr
20

<210> 173
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<400> 173

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1 5 10 15

Pro Lys Asp Asp Tyr
20

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<400> 174

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1 5 10 15

Pro Lys Asp Asp Tyr
20

<210> 175
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<220>
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<400> 175

Lys Asp Asx Xaa Gly Ser Glu Val Lys Met Asp Ala Glu Phe Gly Xaa
1 5 10 15

Pro Lys Asp Asp Tyr
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<210> 176
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Lys Asp Asx Xaa Gly Ser Glu Val Lys Met Asp Asp Glu Phe Gly Xaa
1 5 10 15

Pro Lys Asp Asp Tyr
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<400> 177

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1 5 10 15

Pro Lys Asp Asp Tyr
20

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<400> 178

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1 5 10 15

Gly Xaa Pro Lys Asp Asp Tyr
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<400> 179

Lys Asp Asx Xaa Gly Tyr Gly Val Val Ile Ala Thr Val Ile Val Ile
1 5 10 15

Thr Gly Xaa Pro Lys Asp Asp Tyr
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<400> 180

Lys Asp Asx Xaa Gly Val Ile Ala Thr Val Ile Gly Xaa Pro Lys Asp
1 5 10 15

Asp Tyr

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<400> 181

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Asp Tyr

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1 5 10 15

<210> 183
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<400> 184

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1 5 10

<210> 185

<211> 11

<212> PRT

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<400> 185

Lys Asp Asx Gln Gln Leu Leu His Asn Pro Lys
1 5 10

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<400> 186

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<210> 187

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<400> 187

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<210> 188
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<400> 188

Lys Asp Asx Gly Ser Ile Gln Tyr Thr Tyr Gly Pro Lys
1 5 10

<210> 189
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<400> 189

Lys Asp Asx Ser Ile Gln Tyr Thr Tyr Pro Lys
1 5 10

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<400> 192

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1 5 10

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Lys Asp Asx Ser Ser Gln Tyr Ser Asn Pro Lys
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1 5 10 15

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<400> 196

Lys Asp Asx Gly Ser Ser Ile Tyr Ser Gln Gly Pro Lys
1 5 10

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<400> 197

Lys Asp Asx Ser Ser Ile Tyr Ser Gln Pro Lys
1 5 10

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<400> 198

Lys Asp Pro Xaa Gly Ser Glu Val Asn Leu Asp Ala Glu Phe Gly Xaa
1 5 10 15

Pro Lys Gly Tyr
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<400> 199

Lys Asp Pro Xaa Gly Leu Glu His Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

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Lys Asp Pro Xaa Gly Leu Glu Thr Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 201
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Lys Asp Pro Xaa Gly Trp Glu His Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 202
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Lys Asp Pro Xaa Gly Tyr Val His Asp Gly Xaa Pro Lys Gly Tyr
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<220>

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<222> (14)..(14)

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<400> 203

Lys Asp Pro Xaa Gly Tyr Val His Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 204

<211> 18

<212> PRT

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<223> Xaa can be any naturally occurring amino acid

<220>

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<400> 204

Lys Asp Pro Xaa Gly Tyr Val His Asp Ala Pro Val Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 205

<211> 16

<212> PRT
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<400> 205

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<400> 206

Lys Asp Pro Tyr Val His Asp Ala Pro Val Gly Xaa Pro Lys Gly Tyr
1 5 10 15

<210> 207
<211> 14
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<400> 207

Lys Asp Pro Xaa Gly Tyr Val His Asp Ala Pro Lys Gly Tyr
1 5 10

<210> 208

<211> 16

<212> PRT

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<220>

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<222> (12)..(12)

<223> Xaa is episilon-aminocaproic acid

<400> 208

Lys Asp Pro Xaa Gly Ile Glu Pro Asp Ser Gly Xaa Pro Lys Gly Tyr
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<222> (14)..(14)

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Gly Tyr

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1 5 10 15

Lys Gly Tyr

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Gly Tyr

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<400> 212

Asp Val Val Cys Cys Ser Met Ser
1 5

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1 5

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1 5 10

<210> 215
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<400> 215

Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 216
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<400> 216

Pro Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
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<210> 217
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<223> Xaa is norleucine

<400> 217

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<210> 218
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<400> 218

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<210> 220
<211> 14
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<220>
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<400> 220

Lys Asp Asx Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
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Lys Asp Asx Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr

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Lys Asp Asx Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

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<400> 225

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1 5 10

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<400> 226

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1 5 10 15

Gly Tyr

<210> 228
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<220>

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<222> (14)..(14)

<223> Xaa is episilon-aminocaproic acid

<400> 228

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1 5 10 15

Gly Tyr

<210> 229

<211> 13

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide.

<400> 229

Lys Asp Tyr Asx Ala Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

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<212> PRT

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<220>

<223> Synthetic peptide.

<400> 230

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<222> (6)..(6)

<223> Xaa is norleucine

<400> 231

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<222> (14)..(14)

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Gly Tyr

<210> 233

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<213> Artificial

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<222> (14)..(14)

<223> Xaa is episilon-aminocaproic acid

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Gly Tyr

<210> 234

<211> 14

<212> PRT

<213> Artificial

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<223> Synthetic (chemically synthesized) peptide. Artificial protease
substrate.

<400> 234

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1 5 10

<210> 235

<211> 8

<212> PRT

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<223> Synthetic (chemically synthesized) peptide. Artificial protease
substrate.

<400> 235

Gly Asp Glu Val Asp Gly Ile Asp
1 5

<210> 236

<211> 8

<212> PRT

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<223> Synthetic (chemically synthesized) peptide. Artificial protease
substrate.

<400> 236

Gly Asp Glu Val Asp Gly Ile Asp
1 5

<210> 237

<211> 4

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substrate.

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<400> 237

Lys Asp Xaa Gly
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substrate.

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<223> Xaa is epsilon amino caproic acid

<400> 238

Lys Asp Xaa Xaa Gly
1 5

<210> 239
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substrate.

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<400> 239

Gly Xaa Pro Lys
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substrate.

<400> 240

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1 5 10

<210> 241
<211> 16
<212> PRT
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<220>
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substrate.

<400> 241

Lys Asp Asx Gly Asp Glu Val Asp Gly Ile Asp Gly Pro Lys Gly Tyr
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<400> 242

Lys	Asp	Asx	Xaa	Gly	Asp	Glu	Val	Asp	Gly	Ile	Asp	Gly	Xaa	Pro	Lys
1				5					10					15	

Gly Tyr
